

BEST AVAILABLE COPY

ABSTRACT

A circuit for controlling pulse width of a signal for driving a light emitting element, includes a pulse width control circuit capable of responding to multi-bit rates in the same circuit structure. For this purpose, the pulse width control circuit has a T_r/T_f control section controlling at least one of a rise time T_r and a fall time T_f of an input signal according to the bit rate of the input signal; a waveform shaping section shaping a signal output from the T_r/T_f control section to generate an output signal; and a control signal generating section generating a control signal for controlling an operation of the T_r/T_f control section based on pulse width control information.